Method For Scheduling and Usage of Satellite Bandwidth
Inventor: Anderson et al.
Atty. Dkt.: ZM061/02001

We claim:

1. A method of scheduling and usage of bandwidth comprising the steps of:

   a. capturing digital video and storing said video on a computer;

   b. capturing digital data associated with said digital video;

   c. transmitting said digital data associated with said digital video to a central data server;

   d. developing at least one compression curve for a customer;

   e. instructing said computer how to compress said digital video; and,

   f. transmitting said digital video.

2. The method of claim 1, further comprising the step of creating a list of possible compression methods.

3. The method of claim 1, further comprising the step of determining the amount of bandwidth a customer can use.

4. The method of claim 1, further comprising the step of computing an average event size based on a customer budget.

5. The method of claim 1, further comprising the step of computing a weighted average event size based on a probability distribution curve.

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6.   The method of claim 5, computing said weighted average event size based on historical data.

7.   The method of claim 6, computing said weighted average event size by determining probability of probable event size being less than or equal to an average event size.

8.   The method of claim 1 further comprising the step of generating multiple compression curves depending on said customer's market segment.

9.   The method of claim 1 further comprising the step of defining a look up table.

10.   The method of claim 9, redefining said look up table at pre-selected intervals.

11.   The method of claim 9, further comprising the step of determining a compression method in a look up table based on ranking of an event.

12.   The method of claim 11, further comprising the step of determining a compression method based on type of unit monitored.

13.   The method of claim 12, further comprising the step of determining a compression method based on market segment.

14.   The method of claim 13, further comprising the step of determining a compression method based on customer preference.

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15. The method of claim 13, further comprising the step of forming a compression curve connecting minimal video size to maximum video size using a standard linear equation.

16. The method of claim 1 further comprising the step of storing each of said captured videos for a preselected time.

17. The method of claim 1 further comprising the step of storing each captured video in a separate file.

18. The method of claim 1 further comprising the step of capturing said data in a raw format and storing said data on a hard drive.

19. The method of claim 18, storing said data in ASCII format.

20. The method of claim 18, uploading said data at regular intervals to said central data center.

21. The method of claim 18, uploading said data immediately to said central data center.

22. The method of claim 1, said central data center receiving said digital data.

23. The method of claim 22, said central data center statistically ranking said data.

24. The method of claim 1 further comprising the step of instructing said computer on a method of video compression.

25. The method of claim 1 further comprising the step of inserting information into a scheduling table on the central data server.

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26. The method of claim 25 said scheduling table holding all requirements for said video compression.

27. The method of claim 25, said table continually updating dates and times for uploading said compressed video.

28. The method of claim 25, a user's computer continually polling said central data server to determine if uploading necessary.

29. The method of claim 25, said central data server managing video uploads and inhibiting collisions.

30. A method for scheduling and usage of satellite bandwidth, comprising the steps of:

    a. continuously deriving an artificial intelligence model for ranking data captured by electronic devices;

    b. continuously deriving an event resource allocation model for determining compression routines and managing transmission of compressed video from a remote site to a central data center;

    c. capturing said data from an electronic device at a remote site;

    d. capturing video associated with said data at said remote site.

31. The method of claim 30, storing said captured video on a computer at said remote site.

32. The method of claim 30, said data continuously transmitted to said central data center.

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33. The method of claim 32, said artificial intelligence model reviewing said data and statistically ranking an event represented by said data.

34. The method of claim 30, said artificial intelligence model utilizing a two step analysis.

35. The method of claim 34, analyzing said data using a normal distribution model.

36. The method of claim 35, analyzing said data using a linear regression model.

37. The method of claim 36, said data ranked according to criticality of the event.

38. The method of claim 30, a central data server defining a lookup table.

39. The method of claim 38, populating said lookup table using at least one algorithm including various pre-selected modifiers.

40. The method of claim 30, said event resource allocation model managing transmission from a land based satellite dish at said remote site to orbiting satellites and on to said central data center.

41. The method of claim 30, said event resource allocation model managing deriving a compression curve for appropriate video compression.

42. The method of claim 41, said event resource allocation model statistically minimizing weighted averages to achieve a

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probable event size less than or equal to an average event size.

43. The method of claim 30, said event resource allocation model utilizing a scheduling table having compression information therein.

44. The method of claim 43, continuously updating said scheduling table.

45. The method of claim 43, a computer polling said scheduling table and query instruction on compression and transmission of said captured video.

46. A method for scheduling and usage of satellite bandwidth, comprising:

    a. capturing data from an electronic device;

    b. capturing video associated with said electronic device;

    c. transmitting said data to a central data server;

    d. said central data server analyzing said data and ranking event represented by said data;

    e. said central data server instructing a computer to compress pre-selected video;

    f. said computer transmitting said video to said central data server.

47. The method of claim 46, utilizing an artificial intelligence model to rank said event.

48. The method of claim 47, said artificial intelligence model utilizing a normal distribution model.

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49. The method of claim 48, said artificial intelligence model utilizing a linear regression model.

50. The method of claim 46, said central data server utilizing an event resource allocation model.

51. The method of claim 50, said event resource allocation model determining an appropriate compression method.

52. The method of claim 50, said event resource allocation model instructing said computer how to compress said captured video and when to transmit said captured video.